

Table 1. Streamflow-gaging stations and climatic and basin characteristics used in regression analyses of uncontrolled stream segments identified on the Kansas Surface Water Register¹

[ft³/s, cubic feet per second; mi², square miles; in/h, inches per hour. Shaded areas show corrections to original printed report.]

Station number (fig. 1)	Station name	Period of record (water years)	Years of record	Streamflow			Drainage area (mi ²)	Mean annual precipitation, 1960–90 ² (inches)	Mean basin permeability ³ (in/h)	Mean basin slope ⁴ (degrees)
				Mean (ft ³ /s)	Median for period or record (ft ³ /s)	Median for most-recent 10 years (ft ³ /s)				
06814000	Turkey Creek near Seneca, KS	1950–2000	51	129	22	30	276	32.35	0.467	3.1
06815000	Big Nemaha River at Falls City, NE	1944–2000	56	631	159	213	1,339	32.55	.510	2.8
06818200	Doniphan Creek at Doniphan, KS	1961–70	10	3.0	.87	.87	4.15	36.71	1.08	4.8
06836500	Driftwood Creek near McCook, NE	1977–86	10	9.5	4.8	5.0	361	20.94	1.30	2.9
06844700	South Fork Sappa Creek near Brewster, KS	1968–87	20	.23	0	0	71.3	18.40	1.30	.83
06844900	South Fork Sappa Creek near Achilles, KS	1960–2000	41	3.4	0	.28	412	19.20	1.30	1.4
06845000	Sappa Creek near Oberlin, KS	1930–2000	71	16	.70	1.9	1,086	19.82	1.32	1.5
06845200	Sappa Creek near Beaver City, NE	1938–72	35	38	5.0	4.5	1,500	20.57	1.36	1.9
06847900	Prairie Dog Creek above Keith Sebelius Lake, KS	1963–2000	38	9.0	2.1	6.1	590	20.65	1.36	1.7
06848000	Prairie Dog Creek at Norton, KS	1945–63	19	39	7.5	5.0	684	20.96	1.36	1.9
06848500	Prairie Dog Creek near Woodruff, KS	1930–63	34	57	10	5.0	1,007	21.56	1.37	2.1
06853800	White Rock Creek near Burr Oak, KS	1958–2000	43	29	6.0	12	227	26.49	1.30	2.5
06854000	White Rock Creek at Lovewell, KS	1947–56	10	68	5.7	5.7	354	27.07	1.31	2.6
06855800	Buffalo Creek near Jamestown, KS	1960–89	30	72	11	18	330	27.94	1.10	1.9
06855900	Wolf Creek near Concordia, KS	1963–81	19	11	1.0	1.6	56	28.76	1.01	2.5
06858500	North Fork Smoky Hill River near McAllaster, KS	1948–84	27	3.7	0	0	752	17.12	1.53	1.3
06859500	Ladder Creek below Chalk Creek near Scott City, KS	1952–79	28	8.0	1.9	1.3	1,432	17.65	1.40	1.0
06860000	Smoky Hill River at Elkader, KS	1940–2000	61	24	1.5	.57	3,555	17.67	1.53	1.3
06861000	Smoky Hill River near Arnold, KS	1951–2000	50	44	2.3	5.3	5,220	18.44	1.52	1.4
06863300	Big Creek near Ogallah, KS	1956–68	13	22	2.9	3.0	297	21.43	1.28	1.1
06863500	Big Creek near Hays, KS	1947–2000	54	33	7.9	19	594	21.80	1.18	1.4
06863900	North Fork Big Creek near Victoria, KS	1963–86	24	3.1	0	0	90.3	22.61	1.20	1.7
06864000	Smoky Hill River near Russell, KS	1940–49	10	184	40	40	6,965	19.48	1.46	1.4
06866000	Smoky Hill River near Lindsborg, KS	1906–47	42	244	57	86	8,110	20.60	1.46	1.5
06866500	Smoky Hill River near Mentor, KS	1925–47	23	329	116	197	8,358	20.84	1.45	1.6

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06866900	Saline River near Wakeeney, KS	1956–2000	45	21	2.6	7.4	696	20.60	1.37	1.5
06867000	Saline River near Russell, KS	1946–2000	55	98	31	64	1,502	21.68	1.39	2.2
06868000	Saline River near Wilson, KS	1930–63	34	166	46	66	1,900	22.36	1.36	2.4
06868400	Wolf Creek near Lucas, KS	1960–71	12	16	2.2	1.8	163	25.02	1.20	2.6
06869500	Saline River at Tescott, KS	1920–63	44	247	70	111	2,820	23.69	1.31	2.5
06870300	Gypsum Creek near Gypsum, KS	1955–2000	46	26	7.0	9.0	120	30.88	.882	2.9
06871000	North Fork Solomon River at Glade, KS	1953–2000	48	28	8.4	26	849	21.31	1.34	2.5
06871500	Bow Creek near Stockton, KS	1952–2000	49	14	5.6	9.5	341	21.57	1.45	1.8
06871800	North Fork Solomon River at Kirwin, KS	1920–54	35	87	31	27	1,367	21.47	1.38	2.3
06871900	Deer Creek near Phillipsburg, KS	1967–81	15	4.0	.69	.63	65	23.00	1.37	3.0
06873000	South Fork Solomon River above Webster Reservoir, KS	1946–2000	55	54	14	34	1,040	20.87	1.46	2.1
06873500	South Fork Solomon River at Alton, KS	1920–57	38	104	30	18	1,720	21.64	1.41	2.1
06873700	Kill Creek near Bloomington, KS	1964–81	18	2.1	0	0	49.4	24.57	1.25	2.6
06876000	Solomon River at Beloit, KS	1930–54	25	457	93	98	5,530	23.06	1.33	2.2
06876700	Salt Creek near Ada, KS	1960–2000	41	70	12	19	384	26.98	1.11	2.6
06877000	Smoky Hill River at Solomon, KS	1919–34	16	931	404	420	8,830	22.1	1.39	1.9
06878000	Chapman Creek near Chapman, KS	1955–2000	46	93	24	37	300	30.89	1.02	2.2
06878500	Lyon Creek near Woodbine, KS	1955–74	20	108	33	32	230	34.13	.533	2.4
06879650	Kings Creek near Manhattan, KS	1980–2000	20	2.6	.19	.04	4.09	33.00	.458	5.9
06882000	Big Blue River near Barnestown, NE	1933–2000	78	867	280	401	4,447	28.54	.820	1.3
06882500	Big Blue River near Hull, KS	1931–40	10	470	217	169	4,685	28.66	.810	1.4
06882510	Big Blue River at Marysville, KS	1985–2000	16	1,190	467	469	4,777	28.67	.809	1.4
06884000	Little Blue River near Fairbury, NE	1911–2000	90	383	160	169	2,350	27.34	1.43	1.4
06884025	Little Blue River at Hollenberg, KS	1975–2000	26	535	211	220	2,752	27.64	1.37	1.6
06884200	Mill Creek at Washington, KS	1960–2000	41	108	19	26	344	30.62	.908	2.4

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06884400	Little Blue River near Barnes, KS	1959–2000	42	704	268	304	3,324	28.23	1.28	1.7
06884500	Little Blue River at Waterville, KS	1923–57	35	619	200	243	3,509	28.23	1.28	1.7
06885500	Black Vermillion River near Frankfort, KS	1954–2000	47	174	29	43	410	33.31	.359	2.4
06886000	Big Blue River at Randolph, KS	1919–60	42	1,690	600	730	9,100	28.94	.946	1.7
06886500	Fancy Creek at Winkler, KS	1955–71	17	47	11	13	174	30.98	.731	2.5
06888000	Vermillion Creek near Wamego, KS	1937–71	35	87	17	27	243	34.94	.427	3.4
06888500	Mill Creek near Paxico, KS	1955–2000	46	194	56	59	316	34.67	.505	4.2
06889100	Soldier Creek near Goff, KS	1965–86	22	1.4	.08	.09	2.06	35.54	.318	2.6
06889120	Soldier Creek near Bancroft, KS	1965–87	23	6.9	.55	.88	10.5	35.16	.344	2.6
06889140	Soldier Creek near Soldier, KS	1965–98	34	11	1.2	1.5	16.9	35.16	.359	2.7
06889160	Soldier Creek near Circleville, KS	1965–2000	36	32	4.6	5.6	49.3	35.82	.381	2.8
06889180	Soldier Creek near St. Clere, KS	1965–80	16	51	10	12	80	35.53	.434	3.0
06889200	Soldier Creek near Delia, KS	1959–2000	42	99	21	22	157	35.63	.476	3.2
06889500	Soldier Creek near Topeka, KS	1930–2000	71	158	30	43	290	35.73	.557	3.3
06890100	Delaware River near Muscotah, KS	1970–2000	31	280	51	56	431	35.97	.398	3.1
06890500	Delaware River at Valley Falls, KS	1923–67	45	388	65	101	922	36.28	.432	3.1
06891500	Wakarusa River near Lawrence, KS	1930–76	47	195	23	64	425	36.61	.617	2.6
06892000	Stranger Creek near Tonganoxie, KS	1930–2000	71	247	40	52	406	37.89	.503	3.2
06893080	Blue River near Stanley, KS	1975–2000	26	36	5	5.6	46	39.35	.609	2.1
06910800	Marais des Cygnes River near Reading, KS	1970–2000	31	113	15	13	177	35.80	.399	2.2
06911000	Marais des Cygnes River at Melvern, KS	1940–64	25	196	23	33	351	36.61	.421	2.2
06911500	Salt Creek near Lyndon, KS	1940–99	60	66	5.1	6.4	111	36.60	.461	2.1
06911900	Dragoon Creek near Burlingame, KS	1961–2000	40	68	8.0	7.5	114	36.07	.443	2.7
06912500	Hundred and Ten Mile Creek near Quenemo, KS	1940–62	23	181	17	7.4	322	36.21	.465	2.3
06913000	Marais des Cygnes River near Pomona, KS	1923–62	40	303	26	25	1,040	36.54	.478	2.2
06913500	Marais des Cygnes River near Ottawa, KS	1903–62	60	627	70	168	1,250	36.70	.520	2.2

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06914000	Pottawatomie Creek near Garnett, KS	1940–2000	61	235	21	20	334	38.31	0.545	1.3
06915000	Big Bull Creek near Hillsdale, KS	1959–80	22	104	14	21	147	39.25	.660	2.1
06916000	Marais des Cygnes River at Trading Post, KS	1929–58	30	1,690	209	202	2,880	38.14	.595	2.0
06916500	Big Sugar Creek at Farlinville, KS	1930–70	41	127	11	18	198	40.18	.657	2.2
06917000	Little Osage River at Fulton, KS	1950–2000	51	238	32	44	295	40.67	.728	2.0
06917380	Marmaton River near Marmaton, KS	1972–2000	29	302	43	42	292	41.34	.829	1.9
06917500	Marmaton River at Fort Scott, KS	1922–71	50	288	31	30	408	41.47	.827	1.9
07138650	White Woman Creek near Leoti, KS	1967–85	19	1.0	0	0	758	15.74	1.20	.57
07139800	Mulberry Creek near Dodge City, KS	1969–90	22	.64	0	0	217	21.70	1.23	.83
07140850	Pawnee River near Burdett, KS	1982–2000	19	11	0	1.5	1,252	20.49	1.11	1.1
07141200	Pawnee River at Rozel, KS	1925–2000	76	63	3.7	4.2	2,148	20.98	1.12	1.1
07141780	Walnut Creek at Nekoma, KS	1970–2000	31	25	1.0	13	1,192	21.02	1.17	1.1
07141900	Walnut Creek at Albert, KS	1959–2000	42	49	2.3	25	1,410	21.40	1.18	1.2
07142300	Rattlesnake Creek near Macksville, KS	1960–2000	41	26	15	13	784	24.14	5.57	.82
07142575	Rattlesnake Creek near Zenith, KS	1974–2000	27	50	29	29	1,047	24.41	5.90	.68
07142620	Rattlesnake Creek near Raymond, KS	1961–98	38	49	24	8.05	1,167	24.41	5.90	.68
07142860	Cow Creek near Claflin, KS	1967–81	15	7.0	.13	.15	43	25.85	1.04	1.3
07142900	Blood Creek near Boyd, KS	1963–80	18	7.1	.48	.79	61	24.45	1.07	1.5
07143300	Cow Creek near Lyons, KS	1939–2000	62	80	12	13	728	26.15	1.30	.87
07143600	Little Arkansas River near Little River, KS	1960–70	11	9.5	.80	.6	71	27.67	.856	1.3
07143665	Little Arkansas River at Alta Mills, KS	1974–2000	27	229	22	22	736	29.49	2.07	.759
07144200	Little Arkansas River at Valley Center, KS	1923–2000	78	312	60	73	1,327	30.34	2.02	.754
07144780	North Fork Ninnescah River above Cheney Reservoir, KS	1966–2000	35	147	76	79	787	26.87	5.48	.69
07144800	North Fork Ninnescah River near Cheney, KS	1951–64	14	160	85	84	930	27.47	4.96	.83
07144850	South Fork South Fork Ninnescah River near Pratt, KS	1962–80	19	2.6	0	0	23.1	25.58	2.02	.92
07145200	South Fork Ninnescah River near Murdock, KS	1951–2000	50	209	135	136	650	27.25	3.08	1.3

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07145500	Ninnescah River near Peck, KS	1939–63	25	550	272	248	2,129	28.06	3.78	1.1
07145700	Slate Creek at Wellington, KS	1970–2000	31	73	8.0	8.8	154	30.73	.876	.81
07146570	Cole Creek near DeGraff, KS	1962–79	18	17	1.8	1.7	30	33.68	.448	1.1
07147070	Whitewater River at Towanda, KS	1962–2000	39	206	36	39	426	33.05	.468	1.2
07147800	Walnut River at Winfield, KS	1922–80	58	793	152	186	1,880	34.31	.488	1.4
07148350	Salt Fork Arkansas near Winchester, OK	1960–93	24	96	34	58	856	24.58	2.81	2.6
07149000	Medicine Lodge River near Kiowa, KS	1939–2000	62	154	85	109	903	25.47	2.56	2.7
07149500	Salt Fork Arkansas River near Cherokee, OK	1941–50	10	393	125	125	2,439	25.44	2.80	2.5
07151500	Chikaskia River near Corbin, KS	1951–2000	50	250	94	106	794	28.69	2.65	1.1
07152000	Chikaskia River near Blackwell, OK	1937–2000	64	585	144	221	1,859	32.94	.800	.95
07154500	Cimarron River near Kenton, OK	1951–2000	50	17	.91	.33	1,106	16.29	2.07	1.0
07155590	Cimarron River near Elkhart, KS	1972–2000	29	11	0	0	3,410	16.33	3.04	1.8
07156010	North Fork Cimarron River at Richfield, KS	1972–85	14	5.6	0	0	492	16.12	3.27	.97
07156100	Sand Arroyo Creek near Johnson, KS	1972–85	14	.25	0	0	751	15.90	3.12	.93
07156220	Bear Creek near Johnson, KS	1967–98	32	3.4	0	0	1,093	15.85	1.27	1.2
07156900	Cimarron River near Forgan, OK	1966–2000	35	58	45	38	8,536	16.85	3.16	1.1
07157000	Cimarron River near Mocane, OK	1943–65	13	100	60	60	8,670	17.07	3.32	1.2
07157500	Crooked Creek near Englewood, KS	1943–2000	58	31	12	8.7	1,157	20.51	1.67	.72
07157900	Cavalry Creek at Coldwater, KS	1967–81	15	3.4	1.5	1.6	39	24.81	2.73	1.1
07157950	Cimarron River near Buffalo, OK	1961–94	34	128	56	47	12,004	19.53	3.19	1.3
07165700	Verdigris River near Madison, KS	1956–76	21	123	28	33	181	36.14	.486	2.8
07166000	Verdigris River near Coyville, KS	1940–59	20	465	45	22	747	36.75	.541	2.4
07166500	Verdigris River near Altoona, KS	1940–59	20	691	71	35	1,138	37.51	.671	2.4
07167000	Fall River near Eureka, KS	1947–76	30	190	40	57	307	35.32	.515	3.1
07167500	Otter Creek at Climax, KS	1947–2000	54	82	10	10	129	36.19	.461	2.8
07168500	Fall River near Fall River, KS	1905–48	44	331	53	44	585	35.84	.518	2.8

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07169500	Fall River at Fredonia, KS	1939–48	10	506	75	75	827	36.26	0.616	2.7
07169800	Elk River at Elk Falls, KS	1967–2000	33	154	22	19	220	36.46	.447	2.5
07170000	Elk River near Elk City, KS	1939–69	31	308	26	44	575	37.41	.740	2.6
07170700	Big Hill Creek near Cherryvale, KS	1958–2000	43	27	1.3	.69	37	41.31	.834	2.3
07172000	Caney River near Elgin, KS	1940–2000	61	273	40	65	445	35.53	.556	3.2
07174000	Little Caney River near Copan, OK	1944–58	15	237	9.5	7.4	424	37.51	1.01	2.9
07174400	Caney River above Coon Creek near Bartlesville, OK	1986–2000	15	1,290	173	99	1,392	36.75	.970	3.1
07179500	Neosho River at Council Grove, KS	1939–63	25	123	16	17	250	33.77	.433	1.8
07180000	Cottonwood River near Marion, KS	1939–68	30	112	18	21	329	32.37	.662	1.5
07180500	Cedar Creek near Cedar Point, KS	1939–2000	62	58	16	18	110	33.33	.518	1.6
07181000	Cottonwood River at Elmdale, KS	1923–32	10	357	88	88	1,045	32.92	.566	1.6
07181500	Middle Creek near Elmdale, KS	1939–50	12	45	7	10	92	34.05	.456	2.2
07182000	Cottonwood River at Cottonwood Falls, KS	1933–67	35	511	108	185	1,740	33.09	.545	1.9
07182400	Neosho River at Strawn, KS	1949–62	14	1,390	285	227	2,933	34.11	.508	1.9
07183100	Owl Creek near Piqua, KS	1960–70	11	122	4	3.6	177	40.36	.609	1.7
07183500	Neosho River near Parsons, KS	1922–63	42	2,450	472	494	4,905	36.39	.579	1.7
07184000	Lightning Creek near McCune, KS	1939–2000	62	169	12	15	197	42.25	1.02	1.2
07186000	Spring River at Waco, MO	1925–2000	76	947	301	405	1,164	43.38	1.41	1.2
07186400	Center Creek near Cartersville, MO	1963–91	29	204	97	134	232	42.92	1.46	1.6
07187000	Shoal Creek above Joplin, MO	1942–2000	59	427	237	290	427	43.21	1.48	2.7
07188000	Spring River near Quapaw, OK	1940–2000	61	2,200	850	1,050	2,510	43.18	1.43	1.4

¹The Kansas Surface Water Register is maintained by the Kansas Department of Health and Environment (Topeka).²Mean annual precipitation for each gaging station from Daly and others (1997).³Mean basin permeability for each gaging station from U.S. Department of Agriculture (1994).⁴Mean basin slope for each gaging station from U.S. Geological Survey (1998).